



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>C12N 15/54, 9/12, C12Q 1/68, 1/48,</b> <b>C12N 15/11, 15/85, A01K 67/027, C07K</b> <b>16/40, A61K 38/45, 31/70, C12N 1/21,</b> <b>1/19</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 98/14593</b>  <b>(43) International Publication Date:</b> 9 April 1998 (09.04.98)																								
<b>(21) International Application Number:</b> PCT/US97/17885  <b>(22) International Filing Date:</b> 1 October 1997 (01.10.97)  <b>(30) Priority Data:</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">08/724,643</td> <td style="width: 40%;">1 October 1996 (01.10.96)</td> <td style="width: 20%;">US</td> </tr> <tr> <td>08/844,419</td> <td>18 April 1997 (18.04.97)</td> <td>US</td> </tr> <tr> <td>08/846,017</td> <td>25 April 1997 (25.04.97)</td> <td>US</td> </tr> <tr> <td>08/851,843</td> <td>6 May 1997 (06.05.97)</td> <td>US</td> </tr> <tr> <td>08/854,050</td> <td>9 May 1997 (09.05.97)</td> <td>US</td> </tr> <tr> <td>08/911,312</td> <td>14 August 1997 (14.08.97)</td> <td>US</td> </tr> <tr> <td>08/912,951</td> <td>14 August 1997 (14.08.97)</td> <td>US</td> </tr> <tr> <td>08/915,503</td> <td>14 August 1997 (14.08.97)</td> <td>US</td> </tr> </table> <b>(71) Applicants (for all designated States except US):</b> GERON CORPORATION [US/US]; 230 Constitution Drive, Menlo Park, CA 94025 (US). UNIVERSITY TECHNOLOGY CORPORATION [US/US]; Suite 250, 3101 Iris Avenue, Boulder, CO 80301 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> CECH, Thomas, R. [US/US]; 1545 Rockmont Circle, Boulder, CO 80303 (US). LINGNER, Joachim [CH/US]; 25, place Croix-Blanche,		08/724,643	1 October 1996 (01.10.96)	US	08/844,419	18 April 1997 (18.04.97)	US	08/846,017	25 April 1997 (25.04.97)	US	08/851,843	6 May 1997 (06.05.97)	US	08/854,050	9 May 1997 (09.05.97)	US	08/911,312	14 August 1997 (14.08.97)	US	08/912,951	14 August 1997 (14.08.97)	US	08/915,503	14 August 1997 (14.08.97)	US	CH-1066 Epalinges (CH). NAKAMURA, Toru [JP/US]; 4940 Thunderbird Circle #204, Boulder, CO 80303 (US). CHAPMAN, Karen, B. [US/US]; 71 Cloud View Road, Sausalito, CA 94965 (US). MORIN, Gregg, B. [US/US]; 3407 Janice Way, Palo Alto, CA 94303 (US). HARLEY, Calvin, B. [CA/US]; 1730 University Avenue, Palo Alto, CA 94301 (US). ANDREWS, William, H. [US/US]; 6102 Park Avenue, Richmond, CA 94805 (US).  <b>(74) Agents:</b> APPLE, Randolph, T. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).  <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
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<b>(54) Title:</b> HUMAN TELOMERASE CATALYTIC SUBUNIT  <b>(57) Abstract</b>  The invention provides compositions and methods related to human telomerase reverse transcriptase (hTERT), the catalytic protein subunit of human telomerase. The polynucleotides and polypeptides of the invention are useful for diagnosis, prognosis and treatment of human diseases, for changing the proliferative capacity of cells and organisms, and for identification and screening of compounds and treatments useful for treatment of diseases such as cancers.																										

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